Z6420" 6n6n2780

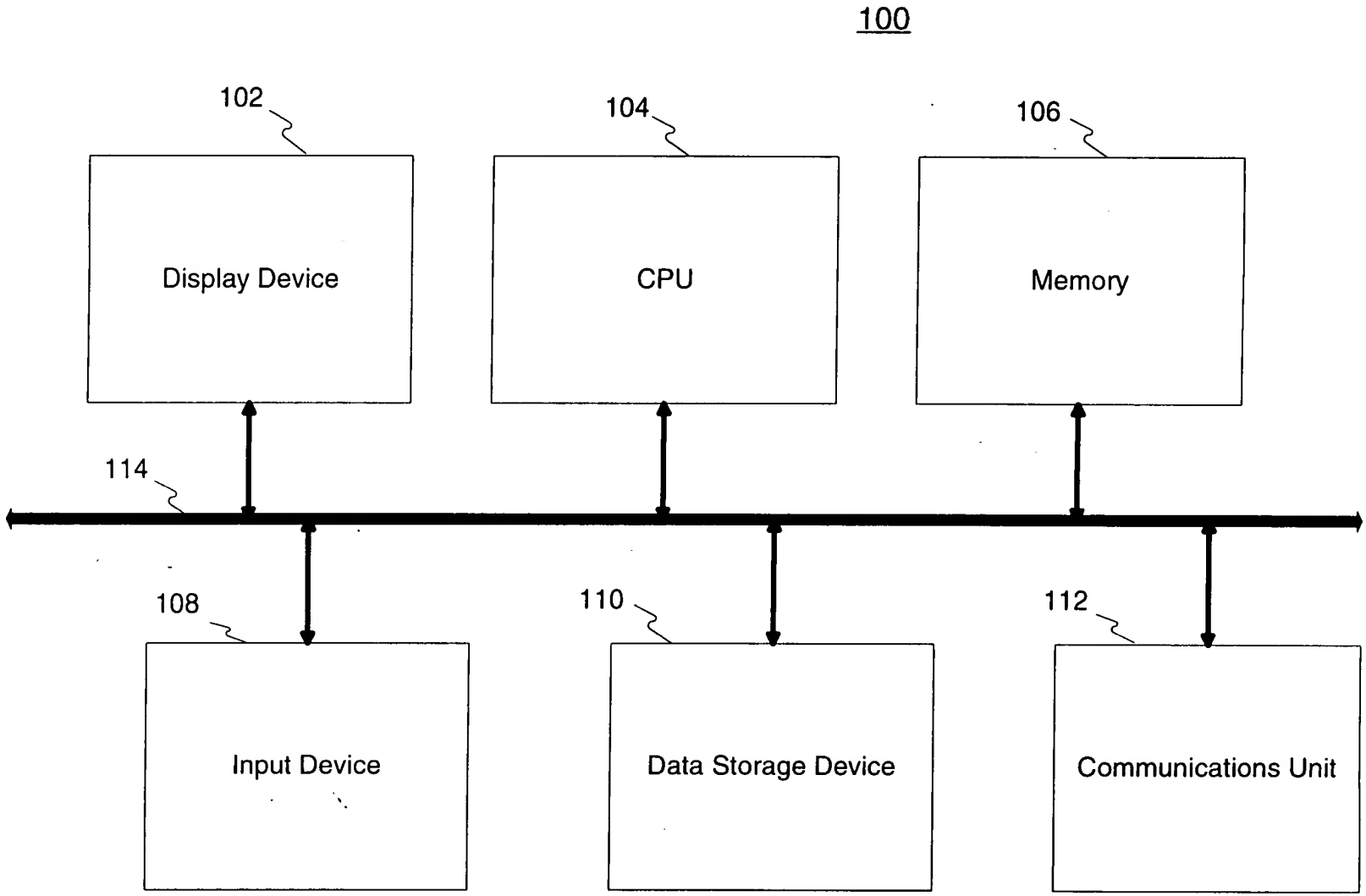


Figure 1

08/2769

"26h20" 6h6h280

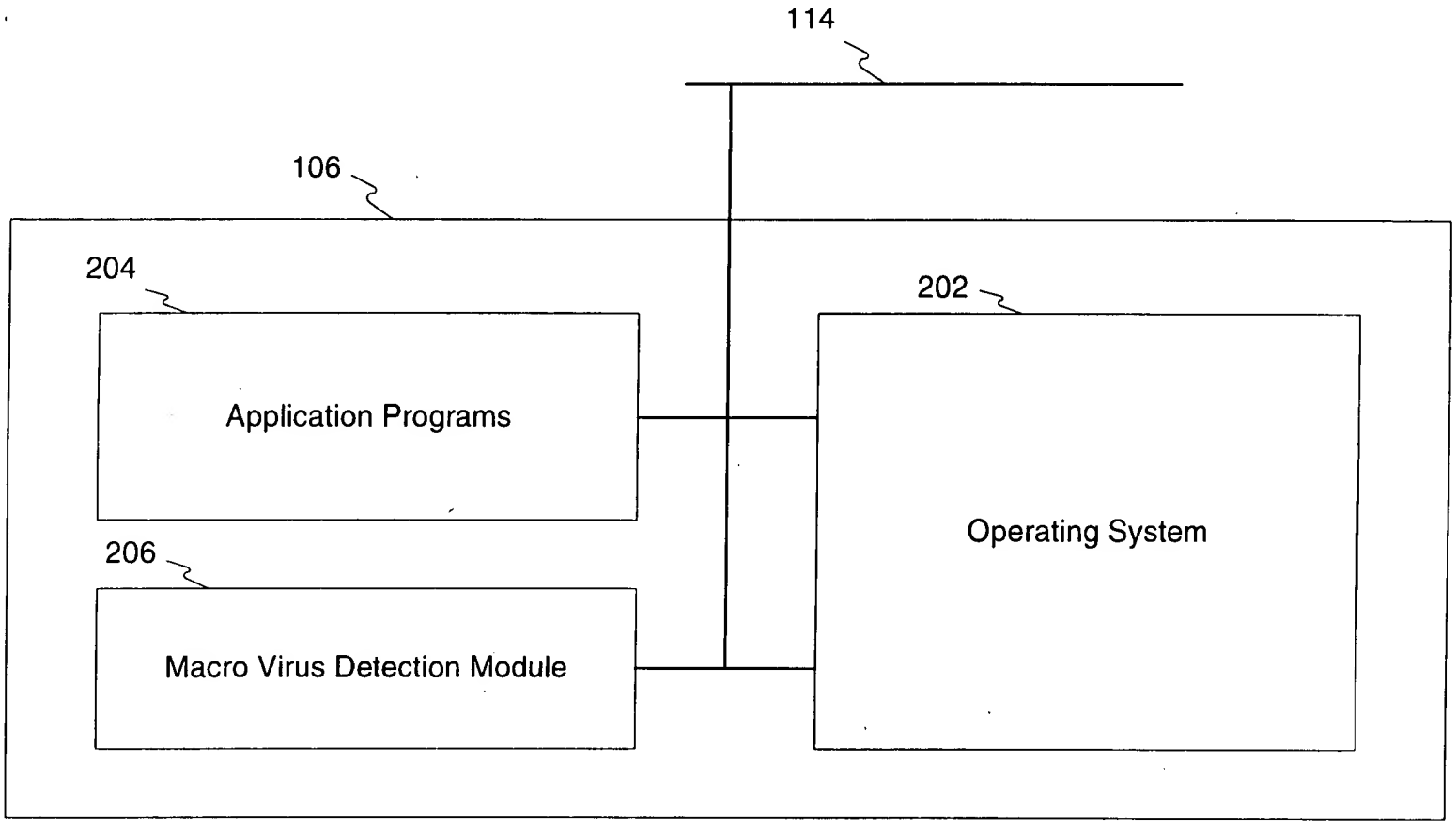


Figure 2

00172439

26h2E0*6h6h2780

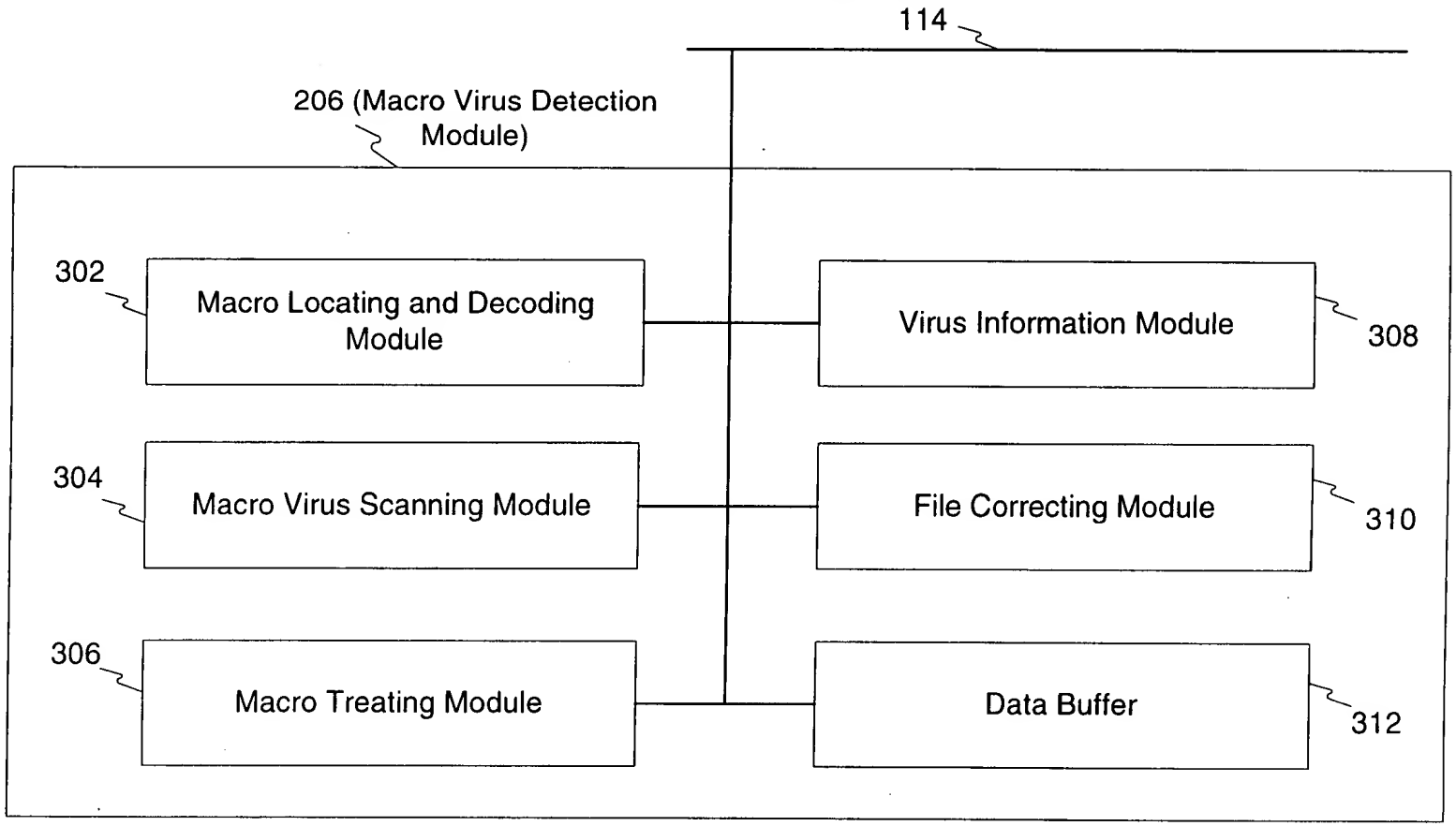


Figure 3

08172495

08724949

400

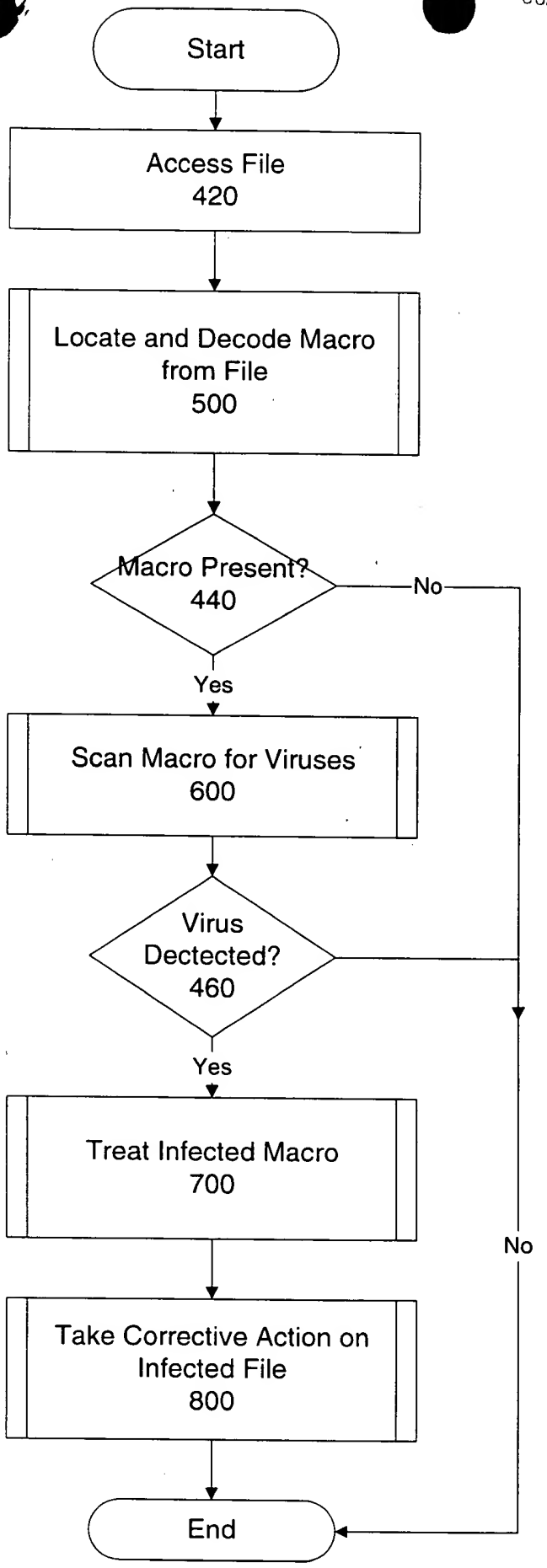


Figure 4

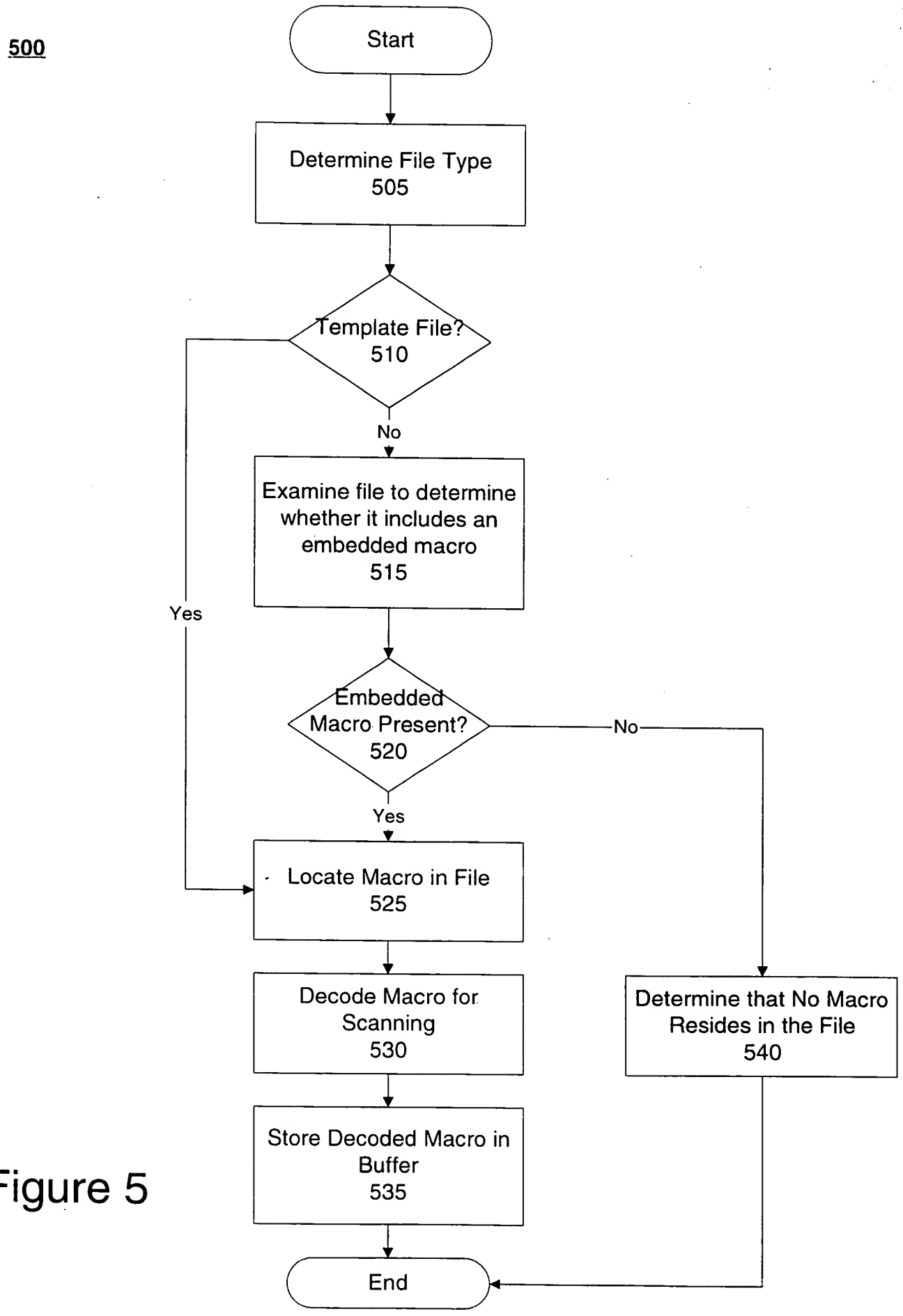

500
Start
Determine File Type
505
Template File?
510
No
Yes
Examine file to determine whether it includes an embedded macro
515
Embedded Macro Present?
520
No
Yes
Locate Macro in File
525
Decode Macro for Scanning
530
Store Decoded Macro in Buffer
535
Determine that No Macro Resides in the File
540
End

Figure 5

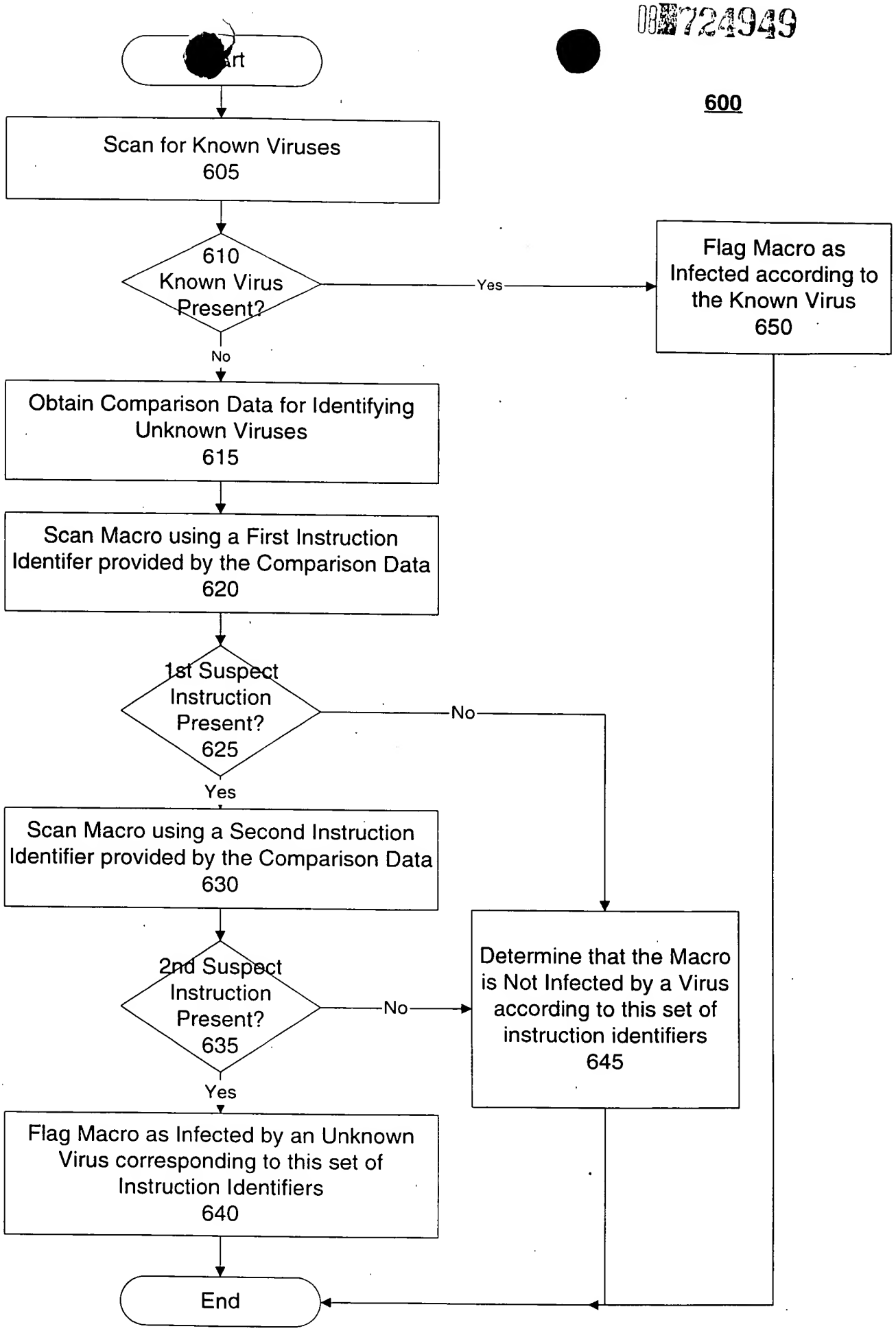

Start
600
Scan for Known Viruses
605
610
Known Virus
Present?
Yes
Flag Macro as
Infected according to
the Known Virus
650
No
Obtain Comparison Data for Identifying
Unknown Viruses
615
Scan Macro using a First Instruction
Identifer provided by the Comparison Data
620
1st Suspect
Instruction
Present?
625
No
Yes
Scan Macro using a Second Instruction
Identifier provided by the Comparison Data
630
2nd Suspect
Instruction
Present?
635
No
Determine that the Macro
is Not Infected by a Virus
according to this set of
instruction identifiers
645
Yes
Flag Macro as Infected by an Unknown
Virus corresponding to this set of
Instruction Identifiers
640
End

Figure 6

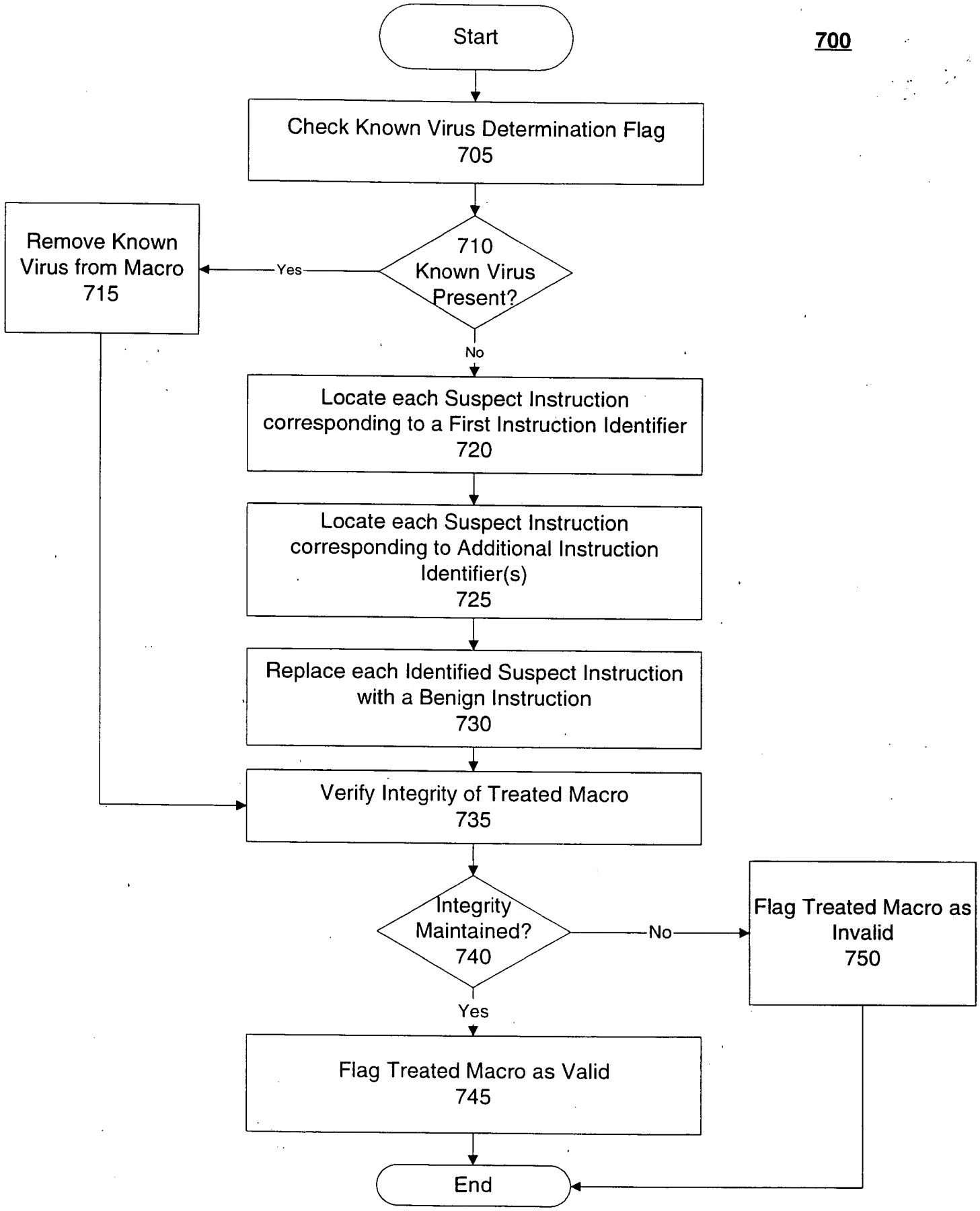

700
Start
Check Known Virus Determination Flag
705
710
Known Virus Present?
Yes
Remove Known Virus from Macro
715
No
Locate each Suspect Instruction corresponding to a First Instruction Identifier
720
Locate each Suspect Instruction corresponding to Additional Instruction Identifier(s)
725
Replace each Identified Suspect Instruction with a Benign Instruction
730
Verify Integrity of Treated Macro
735
Integrity Maintained?
740
No
Flag Treated Macro as Invalid
750
Yes
Flag Treated Macro as Valid
745
End

Figure 7

GB0724949

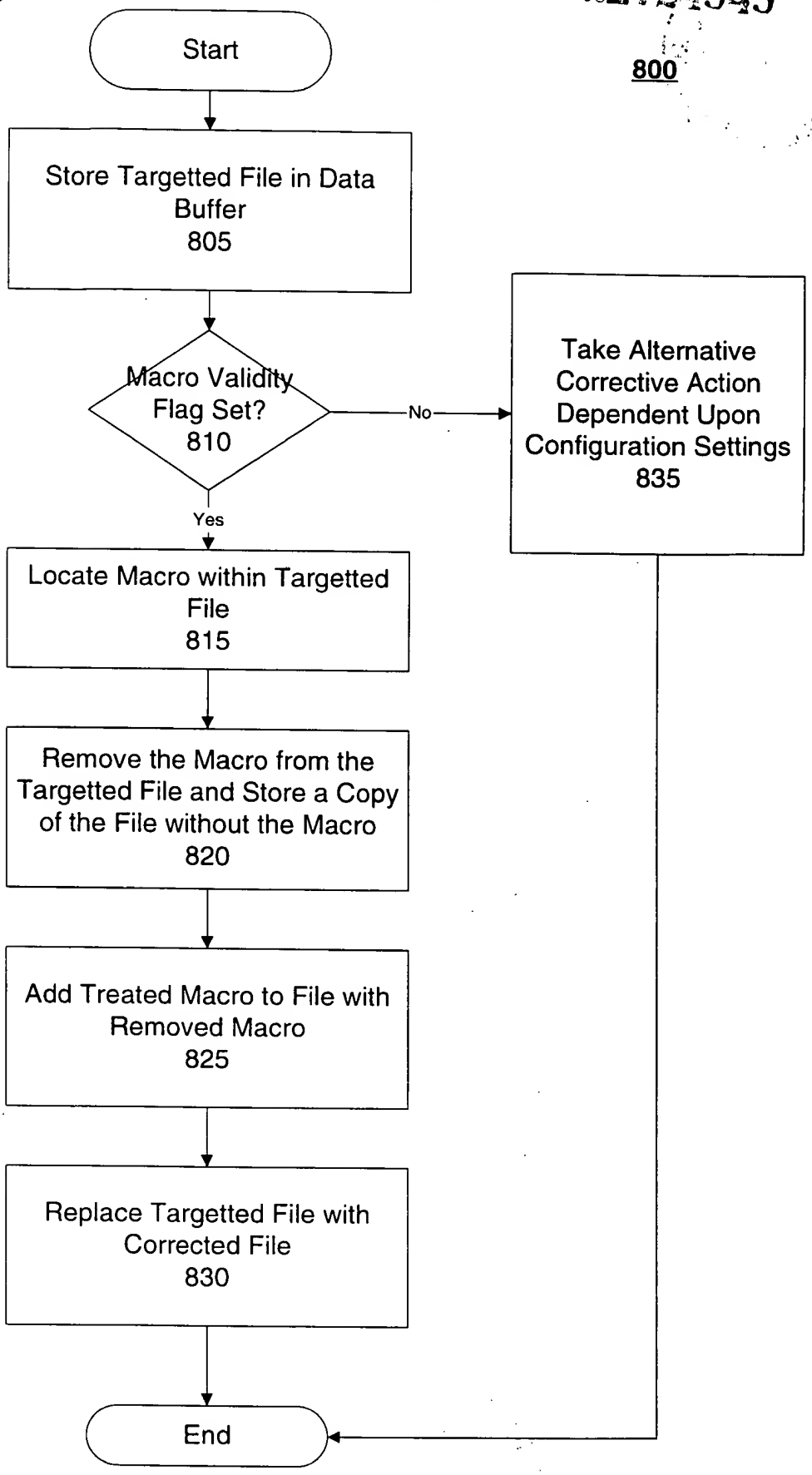
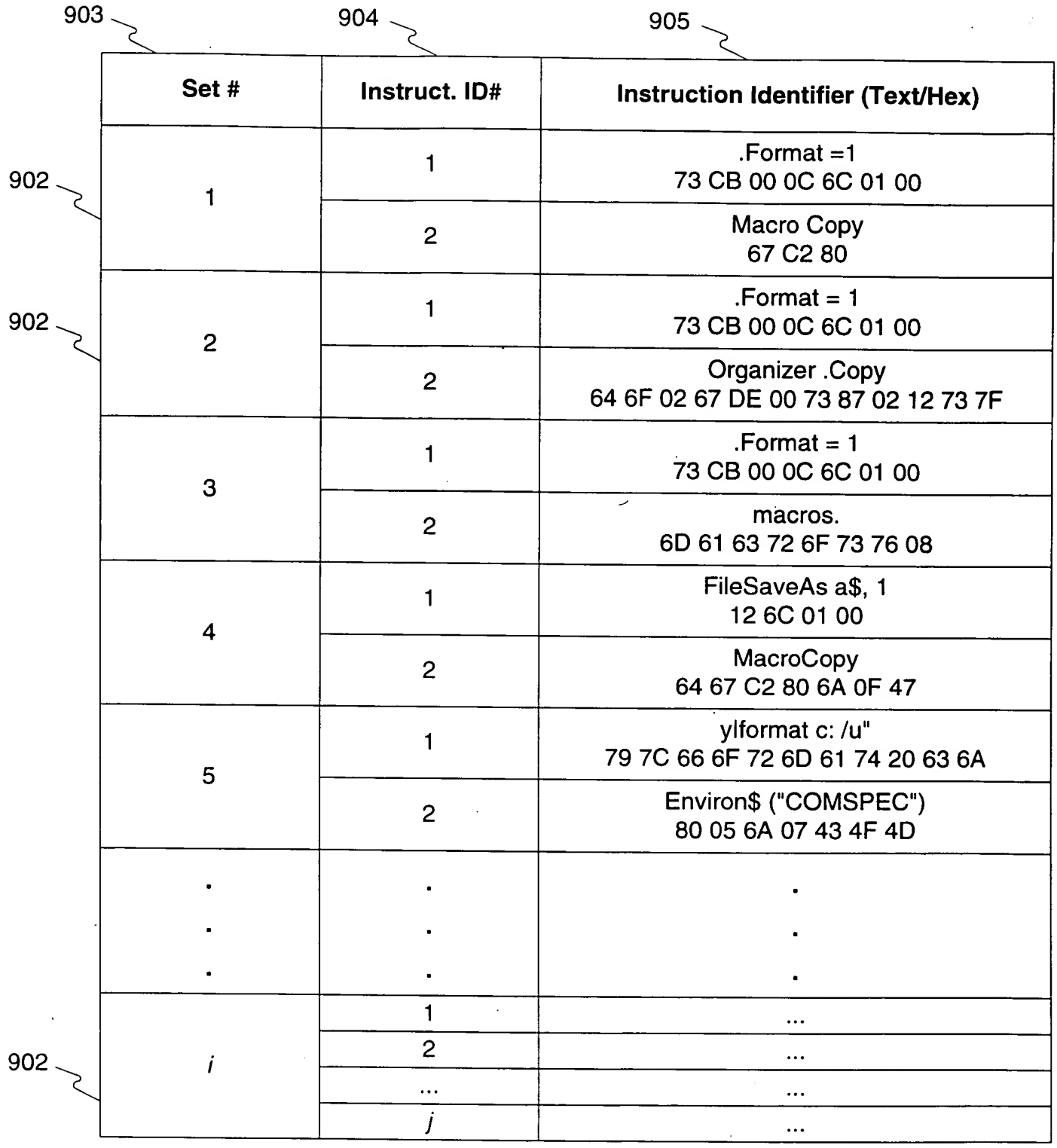


Figure 8

08/772,949



Set #	Instruct. ID#	Instruction Identifier (Text/Hex)
1	1	.Format =1 73 CB 00 0C 6C 01 00
	2	Macro Copy 67 C2 80
2	1	.Format = 1 73 CB 00 0C 6C 01 00
	2	Organizer .Copy 64 6F 02 67 DE 00 73 87 02 12 73 7F
3	1	.Format = 1 73 CB 00 0C 6C 01 00
	2	macros. 6D 61 63 72 6F 73 76 08
4	1	FileSaveAs a$, 1 12 6C 01 00
	2	MacroCopy 64 67 C2 80 6A 0F 47
5	1	ylformat c: /u" 79 7C 66 6F 72 6D 61 74 20 63 6A
	2	Environ$ ("COMSPEC") 80 05 6A 07 43 4F 4D
. . .	. . .	. . .
i	1	...
	2	...
	...	...
	j	...

Figure 9